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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,300	04/09/2002	Nigel Frederick Clay	200-1759 RLC	6893
28395 75	90 06/24/2003			
BROOKS & KUSHMAN P.C./FGTL 1000 TOWN CENTER 22ND FLOOR			EXAMINER TRAN, LEN	
			1725	
		DATE MAILED: 06/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

6) U Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes, Jr. et al (US 3,858,319), and further in view of Wirgovits (US 941,835).

Stokes, Jr. et al discloses the method for applying solder filler to an aluminum body part, heating the flux agent to deoxidize the surface of the aluminum body, and heating the solder filler to bond the solder filler to an aluminum body (col. 2, lines 1-48).

Stokes, Jr. et al fail to disclose applying a tin based solder filler consists of, by weight, of 55% to 85 %Sn, 12% to 40% Zn, and 3 to 5% Cu.

However, Wirgovits discloses a tin based solder filler consists of, by weight, of 55% to 85 %Sn, 12% to 40% Zn, and 3 to 5% Cu so that the solder sticks and the parts united become practically as one solid homogeneous mass (lines 65-70).

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide the above tin-based solder as taught by Wirgovits, in Stokes Jr. et al in order to make a solid homogeneous mass.

4. Claims 7 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stokes, Jr. et al (US 3,858,319), and further in view of Randall (US 1,417,348).

Stokes, Jr. et al discloses the method for applying solder filler to an aluminum body part, heating the flux agent to deoxidize the surface of the aluminum body, and heating the solder filler to bond the solder filler to an aluminum body (col. 2, lines 1-48).

Stokes, Jr. et al fail to disclose a zinc-based solder consists of, by weight of 78% to 89% Zn and 11 to 22% Al.

However, Randall discloses a zinc-based solder consists of, by weight of 78% to 89% Zn and 11 to 22% Al for the purpose of great strength and hardness.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to obvious to used the above zinc-based solder as taught by Randall, in Stokes, Jr. et al in order to possess great strength and hardness.

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Allowable Subject Matter

5. Claims 1, 6, 8-10, 11, 15-17, 23 are allowed.

The prior arts of record fail to teach a solder composition having 81 to 85% Sn, 3 to 5% Zn, and 12 to 14% Cu.

Response to Arguments

- 6. Applicant's arguments with respect to claims 6-10, 15-17, 21-23 have been considered but are most in view of the new ground(s) of rejection.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (703)605-1175. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-3602 for regular communications and (703)305-3602 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

Len Tran
Examiner
Art Unit 1725

LT June 10, 2003

> M. ALEXANDRA ELVE PRIMARY EXAMINER